

FOR OFFICIAL USE ONLY

ACCESS DB # 162380 sec
PLEASE PRINT CLEARLY
166082 Tex

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: Salvoza, Franco Examiner #: 80847 Date: 08/12/05
Art Unit: 1648 Phone Number: 2-8410 Serial Number: 10608029
Location (Bldg/Room#): Rem 3849 (Mailbox #): 3019 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Attenuated Flavivirus Strains Containing A Mutated M-
Ectodomain and Their Applications

Inventors (please provide full names): Philippe Despres, Adeline Carreau

Earliest Priority Date: 06/30/2003

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

I'm looking for a peptide search of the peptide
listed in claim 1:

X1-X2-X3-X4-X5-X6-X7-X8-X9

as well as the peptide consisting of selected
in the group consisting of peptides of 6-9
amino acids wherein X5 represents Phenylalanine
(claim 2)

and peptide associated with a conjugated to
another peptide/protein (claim 3)
and pharmaceutical composition comprising the peptide
(claim 13)

and interference search, invention search

TX

STAFF USE ONLY

| | | |
|---|--------------------------|------------------------------------|
| Searcher: <u>D. Schwab</u> | Type of Search | Vendors and cost where applicable |
| Searcher Phone #: <u>272-2526</u> | <u>8</u> NA Sequence (#) | <u>31742</u> STN |
| Searcher Location: <u>Rensen E01A61</u> | <u>8</u> AA Sequence (#) | Questel/Orbit |
| Date Searcher Picked Up: _____ | <u>✓</u> Structure (#) | Westlaw |
| Date Completed: <u>9/19</u> | <u>✓</u> Bibliographic | WWW/Internet |
| Searcher Prep & Review Time: <u>19/15</u> | Litigation | <u>✓</u> In-house sequence systems |
| Online Time: <u>92/38</u> | Fulltext | Commercial |
| | Other | Interference |
| | | Oligomer |
| | | SPDI |
| | | Score/Length |
| | | Encode/Transl |
| | | Other (specify) |



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 162380 and 166082

TO: Franco M Salvoza
Location: REM-3B498.3C18
Monday, September 19, 2005
Art Unit: 1648

Case Serial Number: 10/608029

From: David Schreiber
Location: Biotech-Chem Library
Remsen E01A61
Phone: 571-272-2526

David.Schreiber@uspto.gov

Search Notes

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 10:03:28 ON 19 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 19 Sep 2005 VOL 143 ISS 13
FILE LAST UPDATED: 18 Sep 2005 (20050918/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 08:26:02 ON 19 SEP 2005)

FILE 'REGISTRY' ENTERED AT 08:26:07 ON 19 SEP 2005

L1 242737 S [-DE]W[-ALI][AVLIPFWMC][KRH][KRHGSTYNQ][[-DEKRH][[-DE]W[-ALI][
L2 188039 S [-DEKRH][[-KRH][[-DE]W[-ALI][AVLIPFWMC][KRH][KRHGSTYNQ][[-DEKRH
L3 88 S L1 AND SQL>=6 AND SQL<=7
L4 94 S L2 AND SQL>=7 AND SQL<=9
L5 177 S L3 OR L4

FILE 'HCAPLUS' ENTERED AT 09:39:39 ON 19 SEP 2005

L6 119 S L5
L7 69 S L6 NOT PY>2003
L8 3 S L6 AND FLAVIVIR?
SELECT L7 RN 1-69
DELETE SELECT
L9 0 S L7 AND FLAVIVIR?
L10 6 S L7 AND ISOLATE?
L11 5 S L7 AND PURIF?
L12 14 S L8 OR L10 OR L11
SELECT RN L12 1-14
DELETE SELECT

FILE 'REGISTRY' ENTERED AT 09:54:40 ON 19 SEP 2005

FILE 'HCAPLUS' ENTERED AT 09:55:01 ON 19 SEP 2005
L13 TRA L12 1-14 RN : 1739 TERMS

FILE 'REGISTRY' ENTERED AT 09:55:02 ON 19 SEP 2005
L14 1739 SEA L13

FILE 'HCAPLUS' ENTERED AT 09:55:34 ON 19 SEP 2005

FILE 'REGISTRY' ENTERED AT 09:55:55 ON 19 SEP 2005

L15 34 S L5 AND L14

L16 FILE 'HCAPLUS' ENTERED AT 09:56:36 ON 19 SEP 2005
14 S L15 AND L12

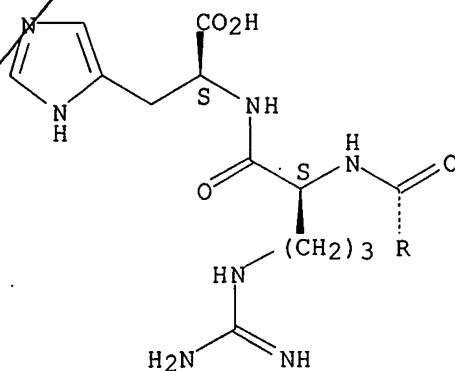
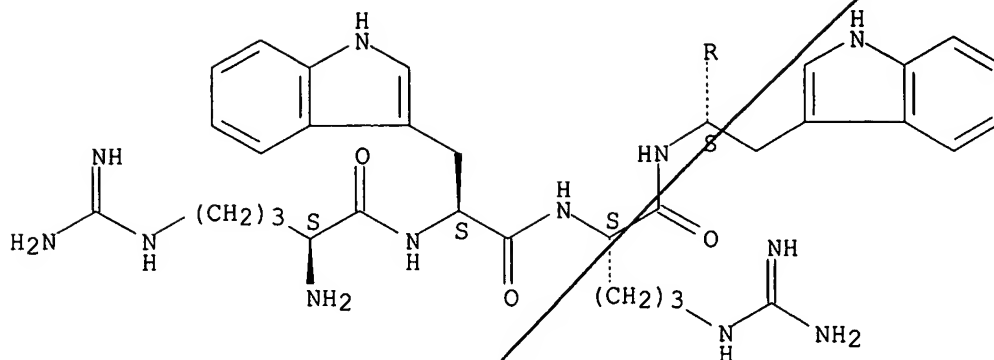
FILE 'HCAPLUS' ENTERED AT 10:03:28 ON 19 SEP 2005

=> d l16 1-14 ibib abs hitrn fhitseq

L16 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:221202 HCAPLUS
DOCUMENT NUMBER: 136:257216
TITLE: Compositions and methods for treating infections using
cationic peptides alone or in combination with
antibiotics
INVENTOR(S): Krieger, Timothy J.; Taylor, Robert; Erfle, Douglas;
Fraser, Janet R.; West, Michael H. P.; McNichol,
Patricia J.
PATENT ASSIGNEE(S): Can.
SOURCE: U.S. Pat. Appl. Publ., 111 pp., Cont.-in-part of U. S.
6,180,604.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|-------------|
| US 2002035061 | A1 | 20020321 | US 1998-30619 | 19980225 |
| US 6503881 | B2 | 20030107 | | |
| US 6180604 | B1 | 20010130 | US 1997-915314 | 19970820 |
| EP 1174439 | A2 | 20020123 | EP 2001-119148 | 19970821 |
| EP 1174439 | A3 | 20030326 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| CA 2282807 | AA | 19980917 | CA 1998-2282807 | 19980310 |
| AU 9866047 | A1 | 19980929 | AU 1998-66047 | 19980310 |
| EP 966481 | A2 | 19991229 | EP 1998-907779 | 19980310 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | |
| JP 2002544759 | T2 | 20021224 | JP 1998-538997 | 19980310 |
| US 6538106 | B1 | 20030325 | US 2000-667486 | 20000922 |
| US 2003232750 | A1 | 20031218 | US 2002-277233 | 20021018 |
| US 2004009910 | A1 | 20040115 | US 2003-351985 | 20030124 |
| JP 2005225857 | A2 | 20050825 | JP 2004-242925 | 20040823 |
| PRIORITY APPLN. INFO. | | | US 1996-24754P | P 19960821 |
| | | | US 1997-34949P | P 19970113 |
| | | | US 1997-40649P | P 19970310 |
| | | | US 1997-915314 | A2 19970820 |
| | | | US 1997-60099P | P 19970926 |
| | | | EP 1997-941352 | A3 19970821 |
| | | | JP 1998-510994 | A3 19970821 |
| | | | US 1998-30619 | A 19980225 |
| | | | WO 1998-CA190 | W 19980310 |
| | | | US 2000-667486 | A1 20000922 |

OTHER SOURCE(S): MARPAT 136:257216
AB Comps. and methods for treating infections, especially bacterial infections,
are provided. Indolicidin peptide analogs containing at least two basic amino
acids are prepared. The analogs are administered as modified peptides,



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:621235 HCAPLUS

DOCUMENT NUMBER: 129:254975

TITLE: Compositions and methods for treating infections using cationic peptides alone or in combination with antibiotics

INVENTOR(S): Fraser, Janet R.; West, Michael H. P.; Mcnicol, Patricia J.

PATENT ASSIGNEE(S): Micrologix Biotech Inc., Can.

SOURCE: PCT Int. Appl., 106 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| WO 9840401 | A2 | 19980917 | WO 1998-CA190 | 19980310 |
| WO 9840401 | A3 | 19981217 | | |

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

| | | | | |
|------------|----|----------|-----------------|----------|
| US 6180604 | B1 | 20010130 | US 1997-915314 | 19970820 |
| CA 2282807 | AA | 19980917 | CA 1998-2282807 | 19980310 |
| AU 9866047 | A1 | 19980929 | AU 1998-66047 | 19980310 |
| EP 966481 | A2 | 19991229 | EP 1998-907779 | 19980310 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

| | | | | |
|---------------|----|----------|----------------|----------|
| JP 2002544759 | T2 | 20021224 | JP 1998-538997 | 19980310 |
| US 2004009910 | A1 | 20040115 | US 2003-351985 | 20030124 |

PRIORITY APPLN. INFO.:

| | | |
|----------------|----|----------|
| US 1997-40649P | P | 19970310 |
| US 1997-915314 | A | 19970820 |
| US 1997-60099P | P | 19970926 |
| US 1996-24754P | P | 19960821 |
| US 1997-34949P | P | 19970113 |
| US 1998-30619 | A | 19980225 |
| WO 1998-CA190 | W | 19980310 |
| US 2000-667486 | A1 | 20000922 |

AB Compns. and methods for treating infections, especially bacterial infections, are provided. Cationic peptides in combination with an antibiotic agent are administered to a patient to enhance the activity of the antibiotic agent, overcome tolerance, and overcome acquired or inherent resistance. Thus, a combination of antimicrobial agent and cationic peptide that breaks tolerance results in a decrease of min. bacterial concentration (MBC) to min. inhibitory concentration (MIC) ratio to <32. The combination of vancomycin

and MBI 26 overcomes the tolerance of Enterococcus casseliflavus and E. faecalis with MBC/MIC ratio of 1-8 compared to that of 32 to >256 for vancomycin alone.

IT 204245-39-6P, MBI 11G27 204249-38-7P, MBI 11G27CN
213457-52-4P, MBI 11G28 213457-63-7P, MBI 11G28CN

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cationic peptides alone or in combination with antibiotics for treating infections)

IT 204245-39-6P, MBI 11G27

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cationic peptides alone or in combination with antibiotics for treating infections)

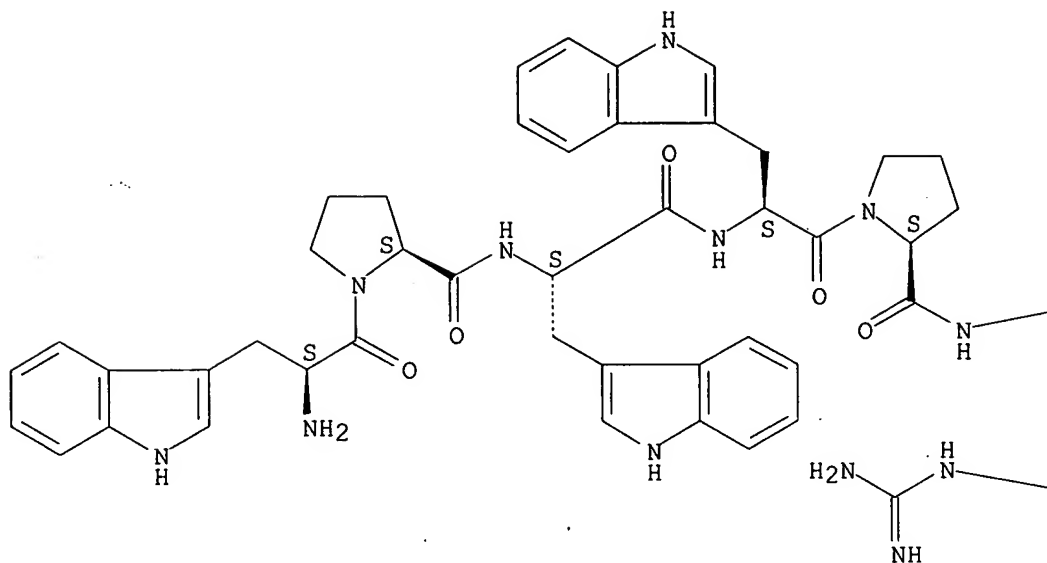
RN 204245-39-6 HCAPLUS

CN 6-13-Indolicidin, 13a-L-lysine- (9CI) (CA INDEX NAME)

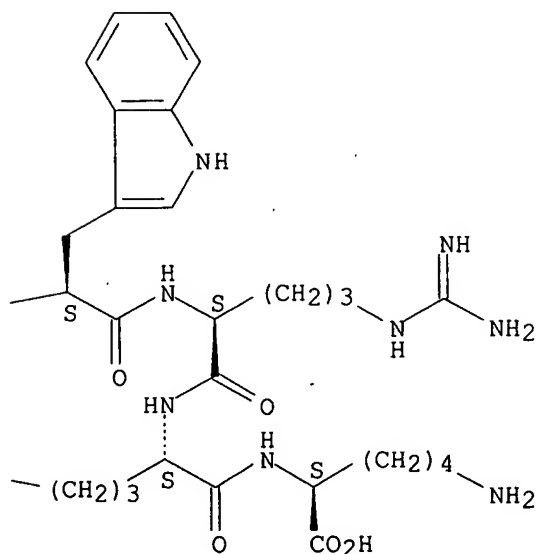
SEQ 1 WPWWPWRRK

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L16 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:147346 HCAPLUS

DOCUMENT NUMBER: 128:213381

TITLE: Compositions and methods for treating infections using analogs of indolicidin

INVENTOR(S): Fraser, Janet R.; West, Michael H. P.; Krieger, Timothy J.; Taylor, Robert; Erfle, Douglas

PATENT ASSIGNEE(S): Micrologix Biotech, Inc., Can.; Fraser, Janet R.;